

III. CLAIM AMENDMENTS

1. (Currently Amended) A switching and connecting arrangement for coupling external and internal antennas, wherein the arrangement comprises at least

~~a diversity switch (301) arranged on a circuit board (300) for selecting a first antenna or a second antenna and for connecting them in turns electrically to the circuit (311) of a transceiver,~~

~~characterized in that the arrangement also comprises~~

a first integrated antenna switch (307) arranged on said circuit board for selecting a first antenna and connecting it electrically to said diversity switch (301), wherein the first antenna is either a first internal antenna (302) or a first external antenna (309) to be coupled, wherein the first antenna switch (307) is forced mechanically to select the first external antenna instead of the first internal antenna when the first external antenna it is coupled to said switch, and to select the first internal antenna when disconnected, and

a second integrated antenna switch (308) arranged on said circuit board for selecting a second antenna and connecting it electrically to said diversity switch (301), wherein the second antenna is either a second internal antenna (303) or a second external antenna (310) to be coupled, wherein the second antenna switch (308) is forced mechanically to select the second

external antenna instead of the second internal antenna when the second external antenna ~~it~~ is coupled to said switch, and to select the second internal antenna when disconnected, and

a diversity switch arranged on a circuit board for selecting the first integrated antenna switch or the second integrated antenna switch and for connecting said antenna switches in turns electrically to the circuit of a transceiver.

2. (Currently Amended) The arrangement according to claim 1, ~~characterized in that~~ wherein

the diversity switch ~~(301)~~ comprises at least a first feed interface ~~(304)~~ arranged for coupling the first integrated antenna switch ~~antenna~~ to the switch, at least a second feed interface ~~(305)~~ arranged for coupling the second integrated antenna switch ~~antenna~~ to the switch, and at least a third interface ~~(306)~~ for coupling said switch to said circuit,

the first integrated antenna switch ~~(307)~~ comprises a fourth feed interface ~~(317)~~ arranged for coupling the first internal antenna ~~(302)~~ to the switch, at least a fifth feed interface ~~(313)~~ arranged for coupling the first external antenna (309) with its interface ~~(315)~~ to the switch, and at least a sixth interface ~~(319)~~ for coupling the switch to said diversity switch, and

the second integrated antenna switch ~~(308)~~ comprises a seventh feed interface ~~(318)~~ arranged for coupling the

second internal antenna ~~(303)~~ to the switch, at least an eighth feed interface ~~(314)~~ arranged for coupling the second external antenna ~~(310)~~ with its interface ~~(316)~~ to the switch, and at least a ninth interface ~~(320)~~ for coupling the switch to said diversity switch.

3. (Currently Amended) The arrangement according to claim 1, ~~characterized in that it~~ wherein the arrangement also comprises a switch ~~(321)~~ arranged for coupling said diversity switch electrically to said circuit, wherein the switch ~~(321)~~ comprises at least a tenth interface ~~(323)~~ arranged for coupling the receiving part ~~(WLAN-RX)~~ of said circuit to the switch, at least an eleventh interface ~~(322)~~ arranged for coupling the transmission part ~~(WLAN-TX)~~ of said circuit to the switch, and wherein said switch is arranged to connect said diversity switch to the receiving part ~~(WLAN-RX)~~ for transferring a signal received with the selected antenna, or to the transmission part ~~(WLAN-TX)~~ for transmitting a signal by means of the selected antenna.

4. (Currently Amended) The arrangement according to claim 1, ~~characterized in that~~ wherein the receiving part ~~(WLAN-RX)~~ comprises a separate bandpass filter ~~(FL1)~~ for processing a received signal, and that the transmission part ~~(WLAN-TX)~~ comprises a separate low pass filter ~~(FL2)~~ for processing a signal to be transmitted.

5. (Currently Amended) The arrangement according to claim 1, ~~characterized in that~~ wherein said circuit board ~~(300)~~ is fitted in an expansion card ~~(C)~~ comprising said transceiver and also an expansion part ~~(2)~~ fitted at the end of the

expansion card, wherein said circuit board at least partly and said internal antennas are arranged inside said expansion part.

6. (Currently Amended) The arrangement according to claim 1, ~~characterized in that~~ wherein the first internal antenna (302) and the second internal antenna (303) are arranged on said circuit board (300).

7. (Currently Amended) The arrangement according to claim 3, ~~characterized in that~~ wherein said switch (321) and said diversity switch (301) are integrated in a component comprising at least said first feed interface (304), said second feed interface (305), said tenth interface (323), and said eleventh interface (322).

8. (Currently Amended) An expansion card comprising a switching and connecting arrangement for coupling external and internal antennas, wherein the arrangement comprises at least

~~a diversity switch (301) arranged on the circuit board (300) of the expansion card for selecting a first antenna or a second antenna and for connecting them in turns electrically to the circuit (311) of a transceiver,~~

~~characterized in that the arrangement also comprises~~

a first integrated antenna switch (307) arranged on said circuit board for selecting a first antenna and connecting it electrically to said diversity switch (301), wherein the first antenna is either a first

internal antenna ~~(302)~~—or a first external antenna ~~(309)~~—to be coupled, wherein the first antenna switch ~~(307)~~—is forced mechanically to select the first external antenna instead of the first internal antenna when the first external antenna ~~it~~—is coupled to said switch, and to select the first internal antenna when disconnected, and

a second integrated antenna switch ~~(308)~~—arranged on said circuit board for selecting a second antenna and connecting it electrically to said diversity switch ~~(301)~~, wherein the second antenna is either a second internal antenna ~~(303)~~—or a second external antenna ~~(310)~~—to be coupled, wherein the second antenna switch ~~(308)~~—is forced mechanically to select the second external antenna instead of the second internal antenna when the second external antenna ~~it~~—is coupled to said switch, and to select the second internal antenna when disconnected, and

a diversity switch arranged on a circuit board of the expansion card for selecting the first integrated antenna switch or the second integrated antenna switch and for connecting said antenna switches in turns electrically to the circuit of a transceiver,

— wherein said expansion card consists of at least a card part ~~(1)~~—arranged to be inserted preferably fully inside the expansion card connection of an electronic device, and an expansion part ~~(2)~~—attached to the end of said card part—~~(1)~~, said circuit board ~~(300)~~—being fitted at least partly and the first internal antenna

~~(302)~~—and the second internal antenna ~~(303)~~—being fitted inside the expansion card~~(2)~~.

9. (Currently Amended) The expansion card according to claim 8, ~~characterized~~—~~in that~~ wherein

the diversity switch ~~(301)~~—comprises at least a first feed interface ~~(304)~~—arranged for coupling the first integrated antenna switch ~~antenna~~—to the switch, at least a second feed interface ~~(305)~~—arranged for coupling the second integrated antenna switch ~~antenna~~—to the switch, and at least a third interface ~~(306)~~—for coupling said switch to said circuit,

the first integrated antenna switch ~~(307)~~—comprises a fourth feed interface ~~(317)~~—arranged for coupling the first internal antenna ~~(302)~~—to the switch, at least a fifth feed interface ~~(313)~~—arranged for coupling the first external antenna ~~(309)~~—with its interface ~~(315)~~—to the switch, and at least a sixth interface ~~(319)~~—for coupling the switch to said diversity switch, and

the second integrated antenna switch ~~(308)~~—comprises a seventh feed interface ~~(318)~~—arranged for coupling the second internal antenna ~~(303)~~—to the switch, at least an eighth feed interface ~~(314)~~—arranged for coupling the second external antenna ~~(310)~~—with its interface ~~(316)~~—to the switch, and at least a ninth interface ~~(320)~~—for coupling the switch to said diversity switch.

10. (Currently Amended) The expansion card according to claim 8, ~~characterized in that~~ wherein said arrangement also comprises a switch ~~(321)~~ arranged for coupling said diversity switch electrically to said circuit, wherein the switch ~~(321)~~ comprises at least a tenth interface ~~(323)~~ arranged for coupling the receiving part ~~(WLAN-RX)~~ of said circuit to the switch, at least an eleventh interface ~~(322)~~ arranged for coupling the transmission part ~~(WLAN-TX)~~ of said circuit to the switch, and wherein said switch is arranged to connect said diversity switch to the receiving part ~~(WLAN-RX)~~ for transferring a signal received with the selected antenna, or to the transmission part ~~(WLAN-TX)~~ for transmitting a signal by means of the selected antenna.